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SITE 1

Daily Envoy Claims Data (Rx, Mx, Hx)

- Rx - Pharmaceutical claims
- Mx - Medical claims
- Hx - Hospital claims

De-identify Patient data

- Apply unique Synergy patient identifier
- Encrypt patient identifier
- Remove original patient identifier data

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- Secure data transmission

SITE 2

Load Envoy De-identified Claims Data

- Automatically initiated by receipt of claims data
- Remove reject claims
- Mark reversals

Oracle Data Warehouse

Initialization Steps

- Automatically initiated via claims data load process
- Initialize Oracle data warehouse tables
- Set processing variables

Pull Appropriate Data

- Create a table with appropriate claims data for processing

Get memids and Mx Diags

- Create member identification numbers
- Pull appropriate medical claims diagnosis codes

Clinical Logic/Aggregation Process Steps 1,2 and 3

- One process initiated for each cube within each QUINTERNET Series product
- Applies clinical logic to claims data
- Aggregates data

Create meta data files (*.mda) for FTP delivery to Richardson, TX

- Where appropriate, one process initiated for each cube within each QUINTERNET Series product

Build "Cube" files (data marts) via RSSERVER

- One process initiated for each cube within each QUINTERNET Series product
- Creates "cube" files which will be deployed to production web site

FTP cube files (*.mdc) to server (synolap1) in Richardson, TX (/cognos_dev)

- Automatically initiated from RSSERVER processes
- One process initiated for each cube within each QUINTERNET Series product

Notify Synergy QA team of cube(s) creation

- Email is automatically sent to "cube availat for QA" distribution list

- Secure data transmission

SITE 3

FIG. 1A

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FTP meta data (*.mda)
to server (synolap) in
Richardson, TX
(/cognos_dev/meta)

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SITE 2

• Secure data transmission

• Secure data transmission

SITE 3

- Process initiated daily at 8:05 pm EST
- Where appropriate, validate that metadata files and cube files have been received for cube deployment to production

Verify receipt of metadata files (*.mda)

Verify receipt of cube files (*.mdc)

- Where appropriate, copy metadata files from development directory to processing directory

Copy metadata (*.mda) files from /cognos_dev to /cognos_prod

Serve up cube files for QA

- Enable cubes in environment for Quality Assurance check

Automatically generate web pages using new meta data files

Synergy QAs cubes and approves production deployment

- Quality Assurance check validates cubes before being deployed to production
- Approval process initiates e-mail to distribution
- Approval process initiates FTP of metadata file to Richardson, TX

- Move *.mda files and new html created files to production backup

Move *.mda files from /cognos_prod/meta to /cognos_archive/meta

Disable Cube

- Disable current cube in production and prepare new cube to "serve up" for production

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Copy cube (*.mdc) files from /cognos_dev to /cognos_prod

- Copy newly created cube files to production directory from development directory

Enable Cube For production web site Access

- Enable current cube in production

Post updated web pages to production web site

- If all cubes for a product are updated for the week, archive that product's data

Archive product files if all cubes for product updated

FIG 1B

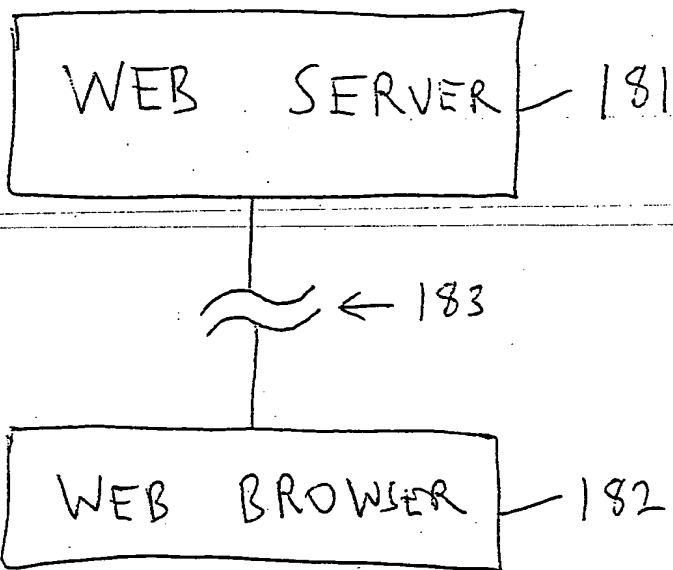


FIG. 1C

- Triggered by cron job upon receipt of Rx data
- Loads Oracle database
- Upon process completion, creates flag file for FPA

Load Rx

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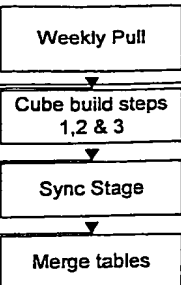
Where ***** is:

- abx Antibiotics (Adult)
- asthm Asthma
- av Antivira
- cc Cough & Cold
- chol Cholesterol
- dep Depression
- diab Diabetes
- hyp Antihypertensives
- imp Impotence
- mig migraine
- nsaid NSAID
- obes Obesity
- pedi Antibiotics (Pediatric)
- ra Rheumatoid Arthritis

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- Triggered by FPA upon receipt of flag files from rserver processes.
- One process kicked off for each TC
- Cognos cube file name: mm*****.mdc.yyyymmdd

FTP *.mdc files to synolap1 (/cognos_dev)



- Triggered by FPA upon receipt of flag file from Rx data load
- Creates a flag file for 1 week of data
- Upon process completion, creates flag file for FPA

Create Cube running rserver

- Triggered by FPA upon receipt of flag file from Weekly Pull
- One process kicked off for each category.
- Upon process completion, each category process Creates flag file for FPA
- Multiple categories for each TC are synchronised before merging.

Create meta data file (*.mda)

- Triggered by FPA upon receipt of flag files from the merge tables processes.
- One process kicked off for each TC
- Each TC process Creates flag file for FPA
- Cognos Cube file name: mm*****.mdc

Disable Cube Backup Cube Copy New Cube Enable Cube Email to Maureen

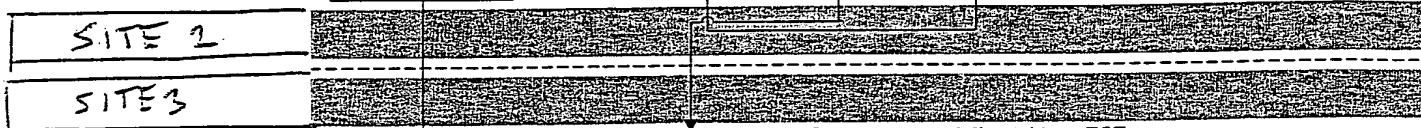
- Triggered by FPA upon receipt of flag files from rserver processes.
- One process kicked off for each TC
- Meta data file name: mm*****.mda.yyyymmdd

QA Cube

- QA's cube creates FPA flag file to FTP meta data file to the RIMF.

FTP meta data (*.mda) to synolap1 (/cognos_dev/meta)

- Triggered by FPA upon receipt of flag files from QA Cube and create meta data file processes.
- One process kicked off for each TC
- Meta data file name: mm*****.mda.yyyymmdd



Verify receipt of *.mdc & *.mda files

- Process runs daily at 11pm EST.
- Validates that a *.mdc and *.mda has been received for each TC.
- Creates flag file for FPA

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Disable production cubes

- Triggered by FPA upon receipt of flag file from verify of *.mdc and *.mda files.
- Creates flag file for FPA

Move *.mda files from /cognos_prod/meta to /cognos_archive/meta

- Triggered by FPA upon receipt of flag file from verify of *.mdc and *.mda files.
- Creates flag file for FPA
- Meta data file name: mm*****.mda.yyyymmdd

Move *.mdc files from /cognos_prod to /cognos_archive

- Triggered by FPA upon receipt of flag file from disable cube process.
- Creates flag file for FPA
- Cognos cube file name: mm*****.mdc.yyyymmdd

Move *.mda files from /cognos_dev to /cognos_prod

- Triggered by FPA upon receipt of flag files from backup of *.mda files.
- Move *.mda files to production

Move *.mdc files from /cognos_dev to /cognos_prod

- Triggered by FPA upon receipt of flag files from backup of *.mdc files.
- Cognos cube file name: mm*****.mdc

Update web pages with meta data

- Triggered by FPA upon receipt of flag files from move of *.mda files.
- Script runs to update meta data on web pages.

Enable up cube

- Triggered by FPA upon receipt of flag file from move of *.mdc files.
- Script runs to make new cube available for web pages.

Post updated web pages

- Triggered by FPA upon receipt of flag files from web page update and cube serve process.
- Script runs to post new web pages.

Fig. 2

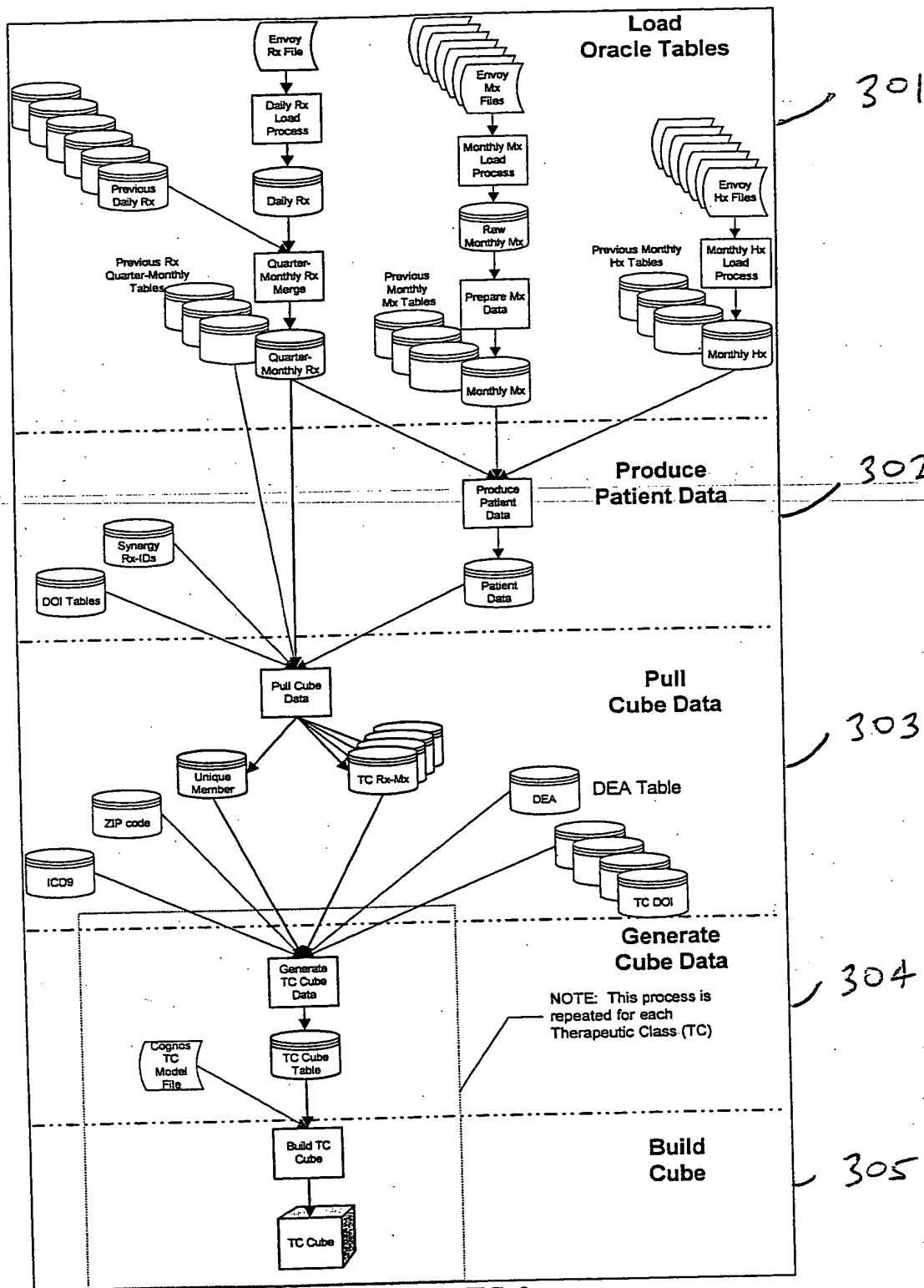


FIG. 3

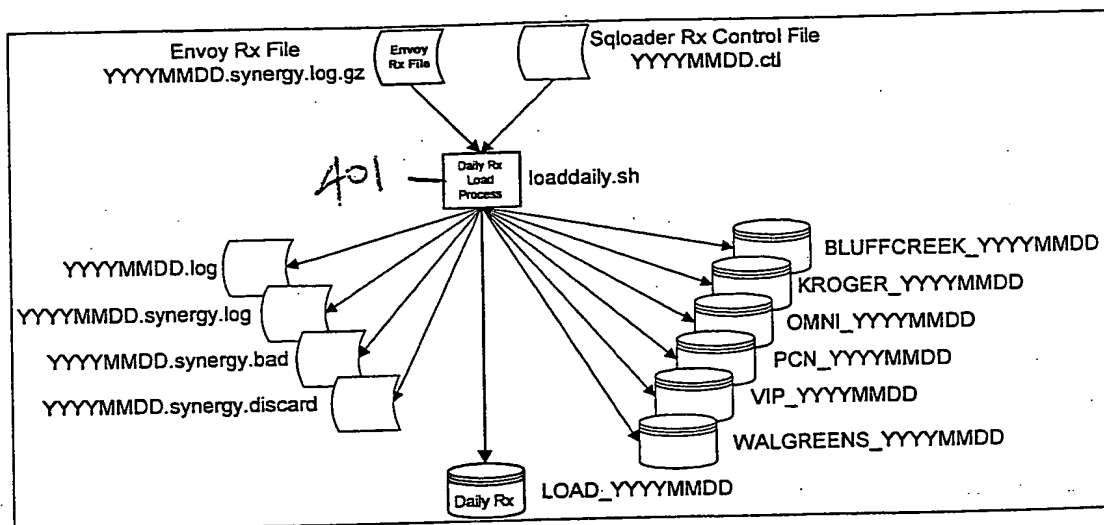


Fig. 4

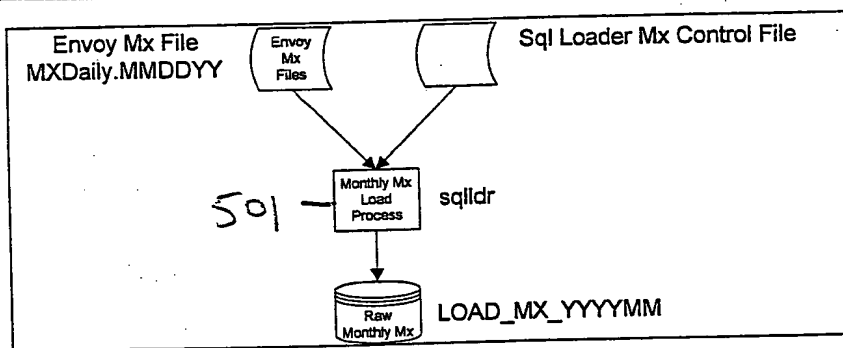


Fig. 5

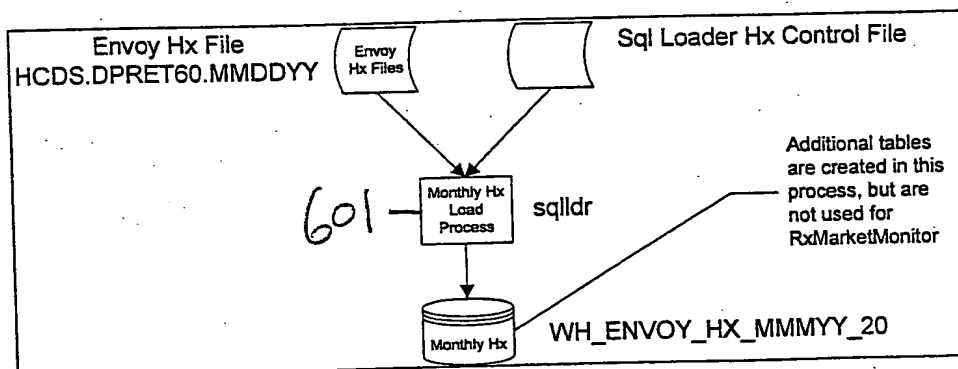


Fig. 6

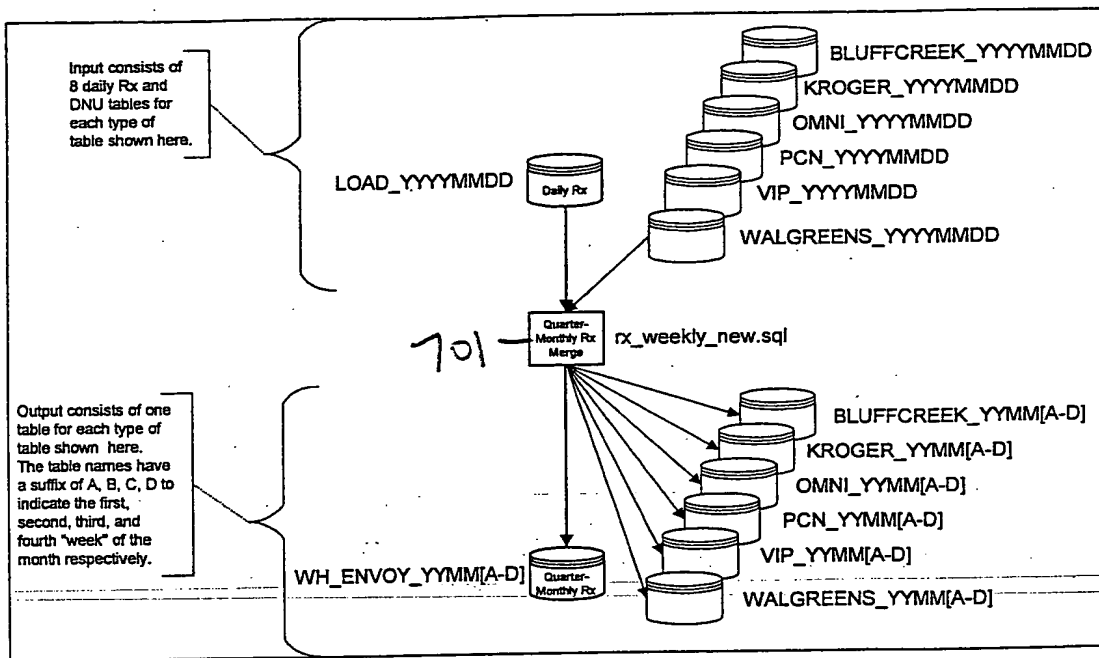


Fig. 7

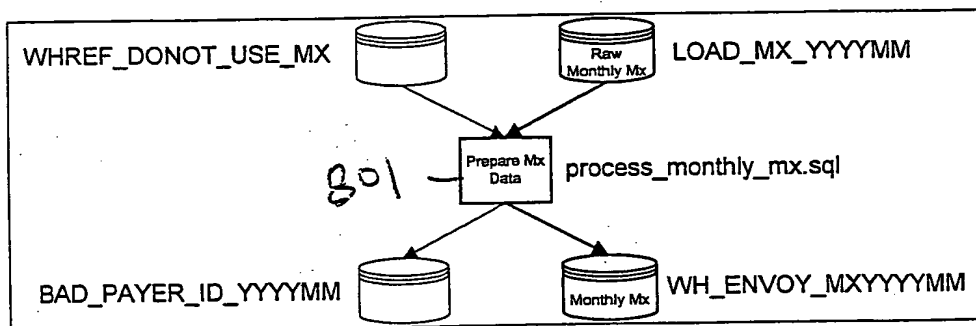


Fig. 8

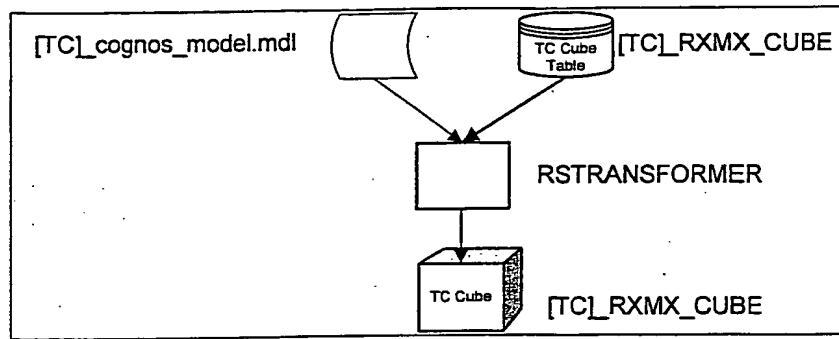


FIG. 9A

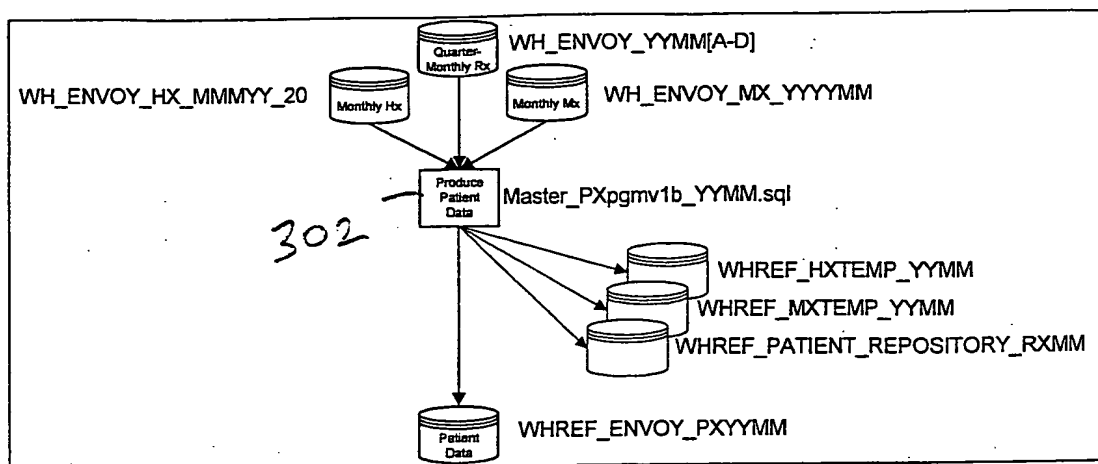


Fig. 9

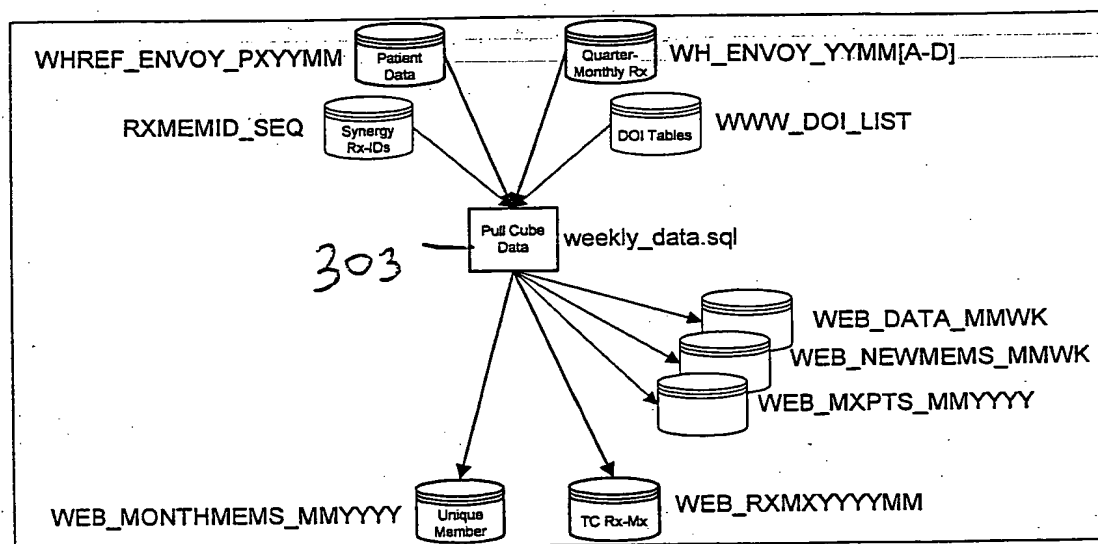


Fig. 10

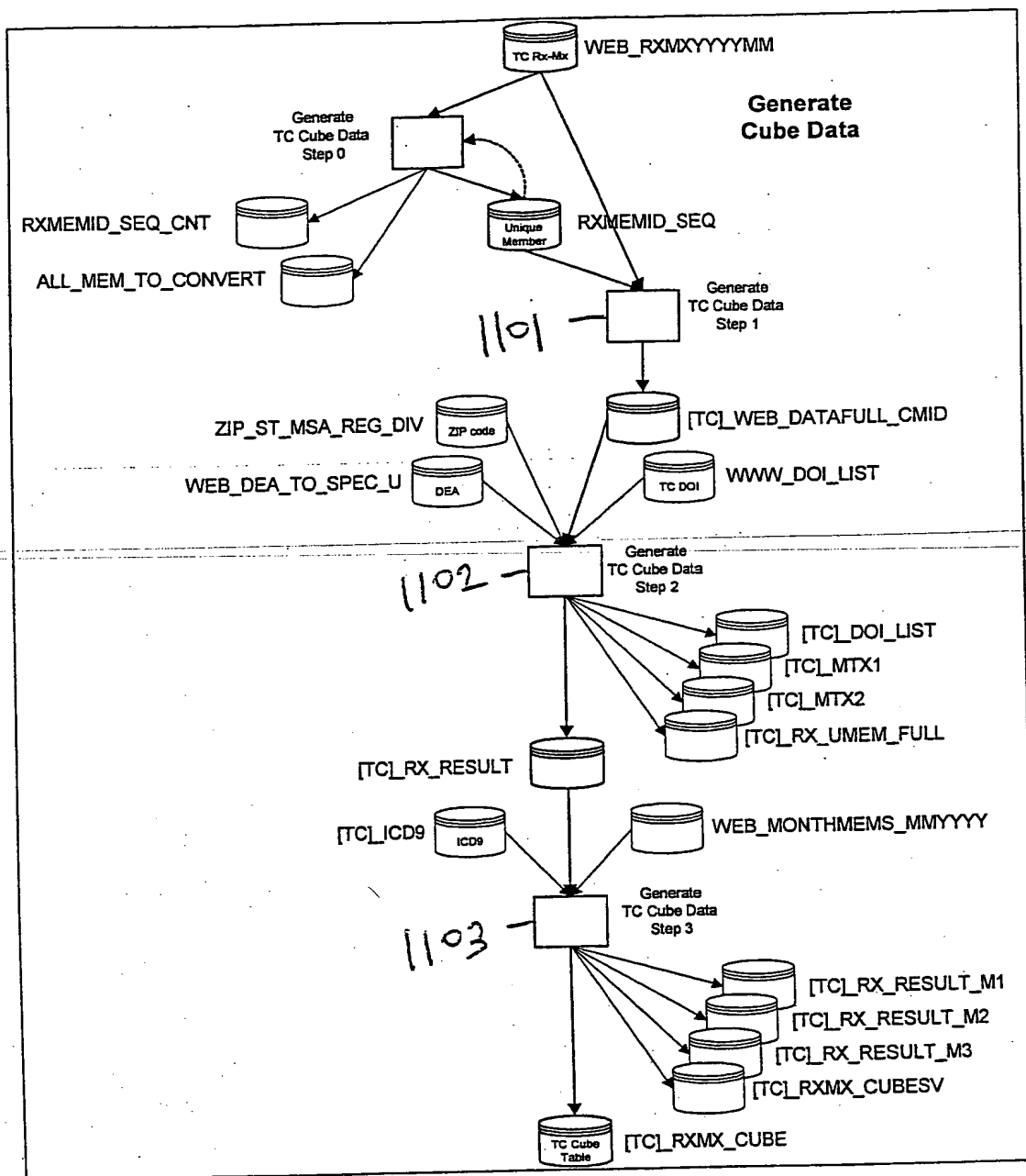


Fig. 11